

Figure 1

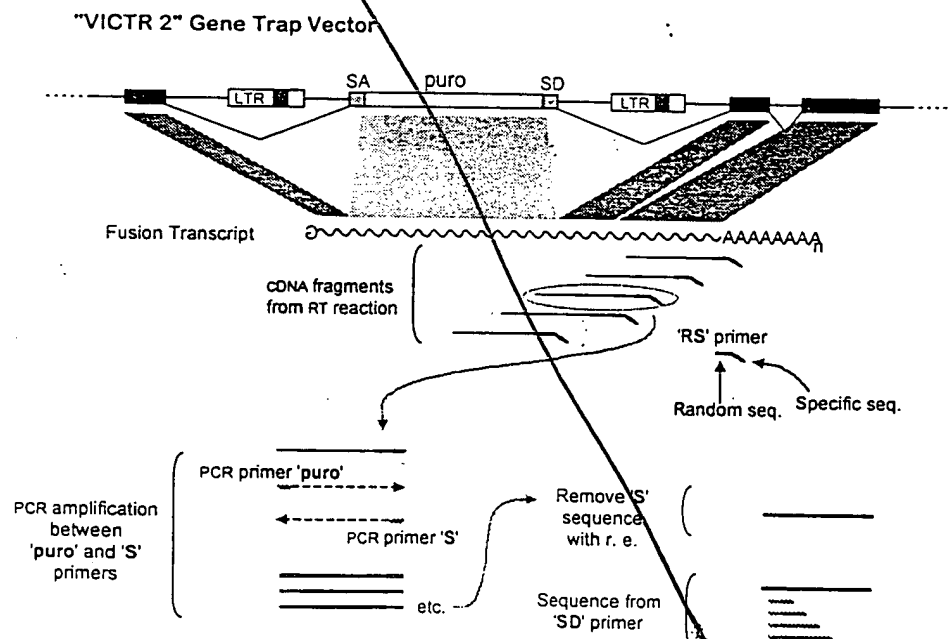


Figure 2

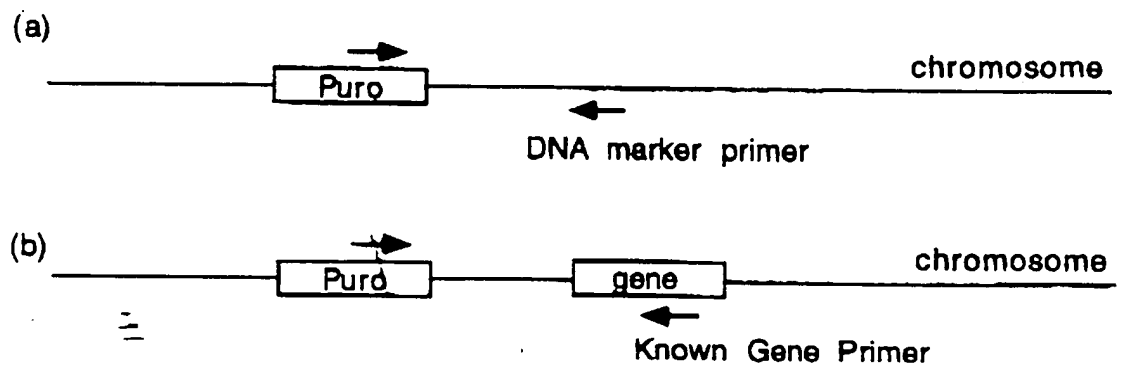


Figure 3

Transfect or Infect
with VICTR construct

Pick Colonies



Automated

- PCR (puro + S primers)
- remove S sequences with restriction enzyme or S1
- dilute for PCR sequencing using the SD primer



Master Library Plates - Store at -152°C



- lyse cells
- bind polyA+ to solid matrix
- washes
- RT rxn with RS primer

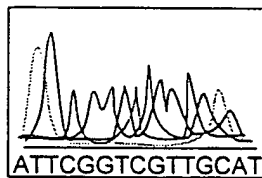
2μL



Inject into blastocysts
Analyze mutate phenotype



Store discs at -20°C for future
use (e.g. cloning the entire transcript)

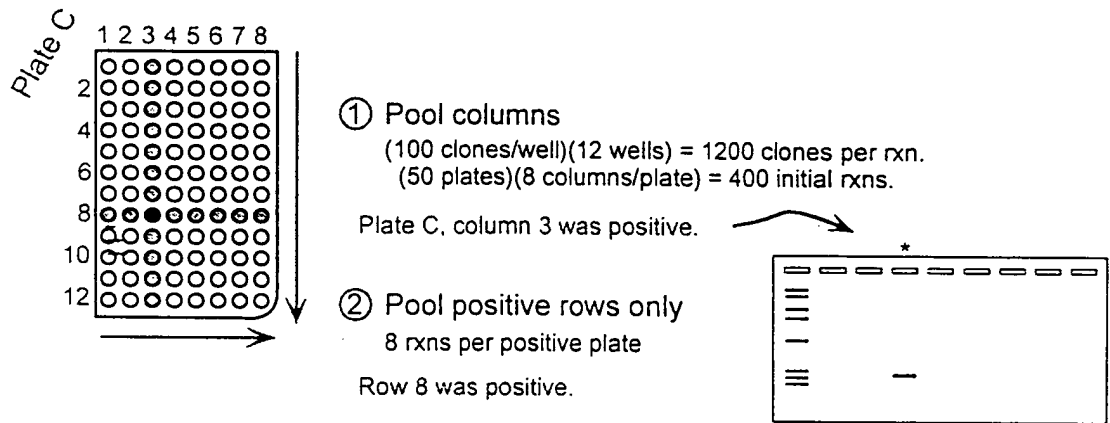


Computer Database
of Library sequences

Figure 4

Identify Positive Pool

To screen all mouse genes (~100,000) with 5-fold redundancy would require about 50 plates of 96-wells (at 100 clones/well).



Identify Positive Clone

The pool on plate C, column 3, row 8 is thawed and plated as single clones:

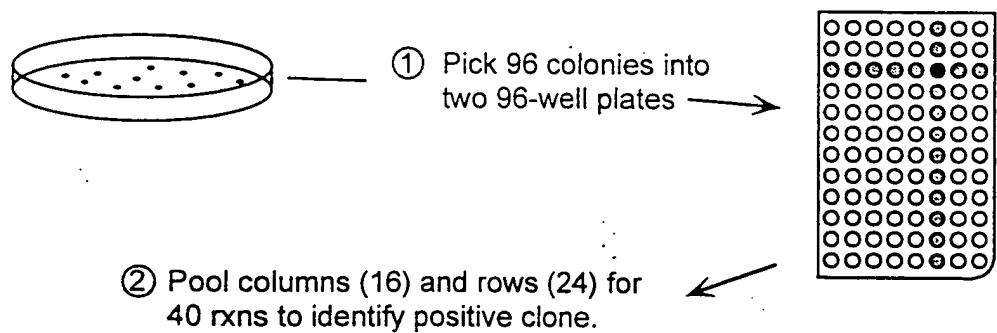


Figure 5

OST1:	248	TTTATATAATATTTAATTTGTTTTACTGGGGTATATATGTGTGAAGAGGACTTCT	302
rat GABA rho3:	1547	TTTACATAATATTTAATTTGTTTTACTGGGGTATATATGTGTGAAGAGGACTTTT	1601
OST2:	56	ACCGTTGCGGAGGCTCACGTTTCTCAGATAGTACATCAGGTGTCATCGNTGTCAGAAGGT	115
mouse TCR-ATF1:	75	ACCGTTGCGGGCCCTCACGTTTCTCAGATAGTACATCAGGTGTCATCGTTATCAGAAAGT	134
OST3:	58	GIGMHAGLHERDRKIVEELFXNCKVQVLIATSTLAWGVNFPALHLVIIKGT EYD GKTRR	237
Yeast ORF G9365:	1430	GIGLHHAGLVQKDRSISHQLFQKNKIQLIATSTLAWGVNLPALHLVIIKGTQFFDAKIEG	1489
OST4:	137	GCGCAGAAGTGGTNCCTGGAANTTTNTCCGCCNCCATCCAGTCTATTAATTGTTGACNGGA	196
seq. from US patent 5470724:	166	GCGCAGAAGTGGTCCGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCGGGA	225
OST5:	108	TCWIRLGT*RXVGASLEYEYIRAS	179
mouse wnt-5A protein precursor:	250	TCW++L R VG +L+ +Y A+ TCWLQLADFRKVG DALKEKYDSAA	273
OST6:	78	CTTATATGGCTACGGCGGCTTCAACATCTCCATTACACCCAACTACAGCGTGTCCAGGCT	137
human prolyl endopeptidase:	1407	CTTATATGGCTATGGCGGCTTCAACATATCCATCACACCCAACTACAGTGTTCAGGCT	1466
OST7:	109	AAAGCATGTAGCAGTTGTAGGACACACTAGACGAGAGCACCAGATCTCATTTGTGGGTGGT	168
mouse 45S pre rRNA:	1604	AAAGCATGTAGCAGTTGTAGGACACACTAGACGAGAGCACCAGATCTCATTTGTGGGTGGT	1663
OST8:	161	TGGATGCAGNCTACCACTGTGTGGCTGCCCTATTTTACCTCAGTGCCTCAGTTCTGGAAG	220
rat MAL:	306	TGGATGCAGCCTACCACTGTGTGGCTGCCCTGTTTTACCTCAGTGCCTCAGTCTGGAAG	365
OST9:	103	ACCTGATTGTTATCCGTGGCCTGCAGAAGTCCAGAAAATACAGACCAAAGTCAACCAGTA	162
mouse malic enzyme:	1666	ACCTGATTGTTATCCGTGGCCTGCAGAAGTCCAGAAAATACAGACCAAAGTCAACCAGTA	1725

Figure 6

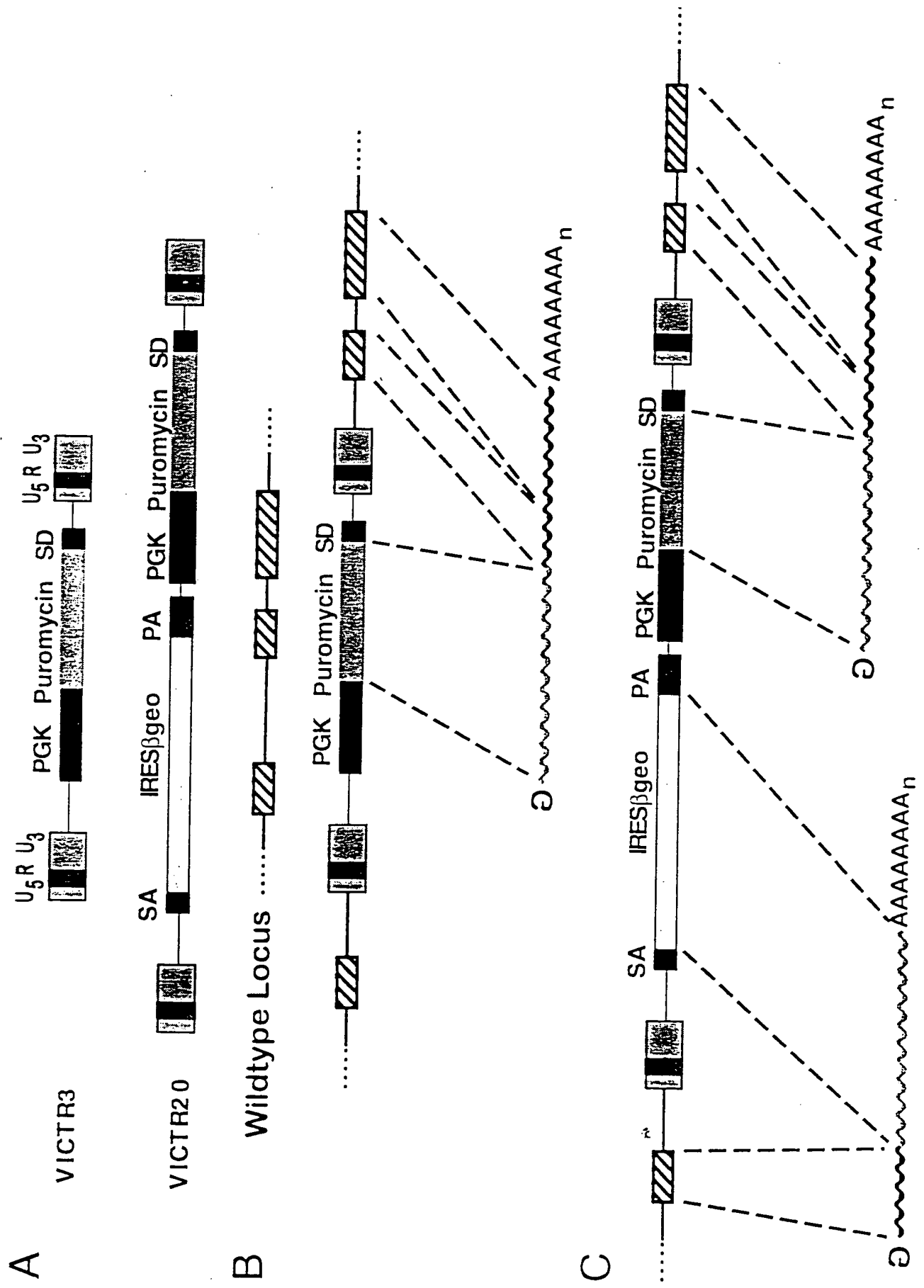


Figure 7

Figure 8

The following table includes 98 OSTS. OSTs with hit into protein and GenBank potential sequences have been removed as well as sequences with repetitive elements hits.

OST#	Un/Accession	pvalue	Id.	Sequence Description
OST4	gb 009445	5.0e-133	961	Mus musculus m43102.r1 Sources mouse p10M19.5 Mus musculus cDNA clone 315387 5'
OST5	gb Y00746	2.6e-41	951	Mus musculus Mouse mRNA for retinal cyclic-GMP phosphodiesterase gamma-subunit (GMP-PDE) (BC 3.1.4.17)
OST22	gb D88454	5.9e-48	831	Mus musculus Mouse mRNA
OST25	gb U28168	1.0e-42	871	Mus musculus Mus musculus GP106 mRNA, complete cds
OST30	gb AA048968	1.9e-173	981	Mus musculus m350106.r1 Sources mouse embryo (HME13.5 14.5 Mus musculus cDNA clone 479507 5'
OST36	gb U29016	7.5e-71	901	Mus musculus Mouse mRNA for squalene synthase
OST38	gb X53732	3.0e-106	951	Mus musculus M. musculus T cell receptor alpha chain variable region (V-alpha)
OST41	gb J00360	1.8e-70	101	Mus musculus mouse alpha-amylase-2 gene; pancreatic mRNA
OST42	gb M33190	4.0e-34	621	Rattus norvegicus Rat cytochrome P450 11 A1 (CYP2A1) gene, complete cds
OST45	gb AA003309	1.4e-145	991	Mus musculus m47011.r1 Sources mouse embryo (HME13.5 14.5 Mus musculus cDNA clone 426931 5'
OST51	gb U06214	1.5e-45	661	Mus musculus Mouse; mouse; Musculus domestica Testis; 10 day; 12a n mRNA for Ca2+ dependent actin-1 protein for secretion, complete cds
OST56	gb AA189233	2.6e-37	971	Mus musculus m55211.r1 Sources mouse lymph node RNA; Mus musculus cDNA clone 643028 5'; similar to TM:G294050 G294850 ALPHA-MUSCLE ACTIN
OST74	gb Y00169	7.5e-112	891	Rattus norvegicus Rat TM-4 gene for fibroblast tropomyosin 4
OST75	gb Z72384	1.0e-126	951	Mus musculus M. musculus 10k-VK2(70/3) gene
OST86	gb AA190122	1.7e-31	881	Mus musculus m46105.r1 Sources mouse lymph node RNA; Mus musculus cDNA clone 642465 5'
OST95	gb AA101745	1.8e-178	961	Mus musculus m56603.r1 Life Tech mouse embryo 8 5dpc 10664019 Mus musculus cDNA clone 557573 5'; similar to SW:TA36-SCHEP Q89713 HYPOPHYSICAL 17.7 KD PROTEIN C18011.06 IN CHHL 5' end
OST98	gb U33806	7.3e-40	881	Rattus sp. EST110153 Rattus sp. cDNA 5' end
OST117	gb AA156426	4.0e-111	971	Homo sapiens Z151007.01 Sources primate uterus (HMP) Homo sapiens cDNA clone 50529 3'; similar to TM:U612496 G294798 HPAVADH
OST118	gb U87684	8.6e-154	841	STIMULATORY FACTOR 770A cDNA; Homo sapiens human mRNA for KIAA0242 gene, partial cds
OST119	gb U87077	2.0e-145	921	Homo sapiens human mRNA for KIAA0240 gene, partial cds
OST121	gb U28482	3.1e-161	831	Homo sapiens human sec2 mRNA for RHA binding protein SEC2, complete cds
OST133	gb AA114106	1.2e-52	731	Homo sapiens m66009.r1 Strackene Heidelberg 937216 Homo sapiens cDNA clone 563201 5'
OST154	gb AA107843	4.0e-128	821	Mus musculus m09e06.r1 Life Tech mouse embryo 10 5dpc 10665016 Mus musculus cDNA clone 556906 5'; similar to gb J05277 Mouse hexokinase mRNA, complete cds (MOUSE)
OST178	gb X05300	8.1e-143	921	Rattus norvegicus Rat mRNA for ribophorin I
OST193	gb C06148	4.8e-107	841	Homo sapiens similar to glutaryl-L-ORNA synthetase
OST243	gb U32146	4.8e-30	861	Rattus sp. EST106973 Rattus sp. cDNA 5' end similar to Synapsin I
OST246	gb AA009152	1.8e-81	791	Mus musculus m101609.r1 Sources mouse embryo 461709 5'
OST268	gb M12658	1.2e-71	911	Cloninger Mouse 4-55 HHA gene
OST280	gb AA058245	1.5e-141	941	Mus musculus m47411.r1 Sources mouse embryo (HME13.5 14.5 Mus musculus cDNA clone 418764 5'

Figure 8 cont'd.

OST201	gb U05313	1.8e-100	98%	Mus musculus Mus musculus ras-GTPase-activating SHP-domain binding protein (G3BP) gene, complete cds
OST205	gb AA048390	4.2e-60	83%	Mus musculus m329a1.r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 477500 5' similar to gb J02809
OST207	gb X77505	3.0e-168	10%	Mouse neural specific calmodulin-binding protein p-57 mRNA, thymodexin
OST300	gb H75122	1.8e-203	98%	Mus musculus mouse acid beta-galactosidase (GLB-1) gene, exon 16
OST301	gb W44050	2.7e-97	97%	Mus musculus m62602.r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 353067 5' similar to gb U11248
OST311	gb W80427	3.0e-73	85%	Mus musculus C57BL/6J ribosomal protein S28 mRNA, complete
OST314	gb T34710	4.0e-54	73%	Heart NMEL19W Homo sapiens fetal 147147 3' similar to PIR:A54766 A54766
OST316	gb W11495	1.2e-72	99%	Metastasis-associated protein msa-1 cDNA 5' end similar to Homo sapiens
OST328	gb W10861	3.7e-59	89%	Mus musculus m65003.r1 Soares mouse p13MP19.5 Mus musculus cDNA clone 314596 5'
OST331	gb U17698	6.8e-119	83%	Mus musculus Mus musculus abp111in-1 (abi-1) mRNA, complete cds
OST342	gb U10120	3.1e-143	95%	Mus musculus Mus musculus 5K02 mRNA, complete cds
OST356	gb W60456	1.8e-117	92%	Mus musculus Mouse cyclophilin mRNA, complete cds
OST361	gb W77360	5.7e-37	90%	Mus musculus m65511.r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 400461 5'
OST368	gb W87662	2.9e-184	97%	Mus musculus mouse Mus musculus domesticus mRNA for 14-3-3 Ead, complete cds
OST386	gb X99946	2.6e-35	85%	Mus musculus Mus musculus 9kb genomic sequence encoding Tax gene
OST389	gb T51727	1.8e-78	89%	Homo sapiens Y25041.r1 Homo sapiens cDNA clone 72500 5'
OST401	gb W29220	3.1e-33	97%	Mus musculus m61908.r1 Soares mouse p13MP19.5 Mus musculus cDNA clone 348998 5' similar to gb Y854 ECU1
OST413	gb H48542	2.0e-68	78%	p2054 GDP-D-HADHOSSE DEHYDRATASE, Homo sapiens human SPS WT-15024
OST418	gb G21163	1.7e-84	85%	Homo sapiens human SPS ES7334292
OST421	gb G25365	6.1e-56	86%	preproinsulin-like growth factor IA
OST425	gb X04480	8.1e-58	99%	Mus musculus m62707.r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 401244 5' similar to gb H25419
OST430	gb W97937	5.7e-93	96%	INITIATION FACTOR 5A (HUMAN), complete cds
OST439	gb H26756	2.4e-134	87%	Mus musculus mouse malic enzyme mRNA, complete cds
OST442	gb W25930	2.6e-49	70%	Homo sapiens 15kb human retina cDNA randomly primed sublibrary Homo sapiens cDNA
OST448	gb X07569	4.3e-72	88%	Homo sapiens H sapiens mRNA for MAP12a protein
OST521	gb X95591	3.1e-206	91%	Mus musculus M. musculus mRNA for protein
OST536	gb W75435	4.6e-75	95%	Mus musculus m650406.r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 390923 5' similar to gb U09659
OST542	gb W14808	6.8e-216	99%	Mus musculus m62603.r1 Soares mouse p13MP19.5 Mus musculus cDNA clone 311156 5' similar to gb Y854 ECU1
OST562	gb X61433	7.6e-68	97%	RAD-50MIL INTERGENIC REGION, [1] Mus musculus M. musculus mRNA for sodium/potassium ATPase beta subunit
OST568	gb AA007930	1.5e-31	67%	Mus musculus m64a07.r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 437748 5'
OST571	gb AA11278	2.1e-147	92%	Mus musculus m65102.r1 Life Tech mouse embryo 10 5dpc 10665016 Mus musculus cDNA clone 557307 5'
OST572	gb AA130347	1.2e-103	85%	Homo sapiens z005g10.51 StrataGene endothelial cell 937223 Homo sapiens cDNA clone 566050 3'
OST573	gb H42855	4.0e-69	75%	Hattus norvegicus Hattus norvegicus RNA polymerase II transcription factor SIII p18 subunit mRNA, complete cds
OST577	gb AA020459	2.1e-91	92%	Mus musculus m61a06.r1 Soares mouse placenta 4NMP13.5 14.5 Mus musculus cDNA clone 455410 5'
OST581	gb H96552	2.0e-90	80%	Homo sapiens Yq54e02.r1 Homo sapiens cDNA clone 199610 5'
OST582	gb D17695	1.9e-218	91%	Hattus rattus Rat mRNA for water channel aquaporin 3 (AQP3), complete cds
OST591	gb L43326	3.6e-103	85%	Mus musculus Mus musculus domesticus coiled-coil protein (CC-1) mRNA, complete cds
OST593	gb U07077	3.4e-117	98%	Mus musculus m64a02.r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 390314 5'
OST594	gb X94616	2.6e-142	87%	Mus musculus Mus musculus mRNA for glycogen synthase
OST595	gb U06137	7.0e-51	86%	Rattus norvegicus Rattus norvegicus PSD-95/SAP90-associated protein-1 mRNA, complete cds
OST598	gb X33476	2.2e-235	98%	Mus musculus Moore mRNA for non-histone chromosome H1 protein H 82-14
OST600	gb U07494	1.0e-188	96%	Mus musculus Mus musculus histone H2A.2 (H2A.2) mRNA, complete cds
OST607	gb W55702	1.2e-71	85%	Mus musculus m65503.r1 Life Tech mouse brain Mus musculus cDNA clone 312677 5'
OST613	gb AA103809	9.8e-68	97%	Mus musculus m64505.r1 Soares mouse lymph node NMEL13.5 Mus musculus cDNA clone 642393 5' similar to gb L00993
OST618	gb H11017	1.5e-95	86%	Mus musculus autoantigen Ia (MOUSE) Homo sapiens Ym1107.r1 Homo sapiens cDNA clone 47592 5'
OST620	gb AA117282	1.0e-78	83%	Mus musculus m625a10.r1 Beckington mouse embryonic region Mus musculus cDNA clone 538938 5' similar to gb J35599 Mus musculus Y-box binding protein mRNA, 3' end (MOUSE)
OST623	gb AA001326	5.7e-106	81%	Homo sapiens zH03L02.r1 Soares fetal liver spleen INFL5 51 Homo sapiens cDNA clone 427851 5'
OST626	gb U07768	1.4e-47	81%	Homo sapiens Human clone N95 Rep-8 mRNA, partial cds
OST663	gb AA028410	3.2e-114	88%	Mus musculus m119a06.r1 Soares mouse p13MP19.5 Mus musculus cDNA clone 463954 5' similar to gb M18775 Mouse tau microtubule binding protein mRNA, complete (MOUSE)
OST664	gb U11027	2.6e-106	87%	Mus musculus Mus musculus C57BL/6J Sec61 protein complex gamma subunit mRNA, complete cds
OST671	gb J564860	8.4e-211	95%	Mus sp. NonO-non-POU domain-containing octamer-binding protein [mouse, B-cell leukemia, BCL1, mRNA, 2411 nt]
OST679	gb W14516	9.9e-139	95%	Mus musculus m624H01.r1 Soares mouse p13MP19.5 Mus musculus cDNA clone 330385 5'
OST680	gb L20258	4.3e-232	95%	Mus musculus Mouse statthmin gene
OST702	gb W78893	5.7e-52	85%	Homo sapiens EST01041 Homo sapiens cDNA clone HHC0834 similar to CAMP-regulated phosphoprotein
OST707	gb U19122	1.2e-85	82%	Homo sapiens Ym44U1.r1 Homo sapiens cDNA clone 51273 5'
OST716	gb U62791	4.5e-74	96%	Mus musculus m6B6C09.r1 Soares mouse

Figure 8 cont'd.

OST1096	gb D07077	7.7e-112	884	(CX31.1) mRNA, complete cds Homo sapiens human mRNA for KIAA0240 gene, partial cds
OST1105	gb H94423	1.0e-66	864	Homo sapiens fetal brain cDNA senescent fibroblasts HMB51 Homo sapiens cDNA clone 323647.3
OST1116	gb X62249	3.1e-36	804	Homo sapiens H. musculus scRNA Hattus norvegicus Rat matrix 3 mRNA
OST1137	gb X63485	1.2e-49	944	Hattus norvegicus Rat matrix 3 mRNA Hattus norvegicus Rat matrix 3 mRNA
OST1145	gb X40060	1.4e-128	914	Hattus norvegicus Rat matrix 3 mRNA Hattus norvegicus Rat matrix 3 mRNA
OST1152	gb W79970	6.4e-109	104	Hattus norvegicus Rat matrix 3 mRNA Hattus norvegicus Rat matrix 3 mRNA
OST1155	gb W10324	2.3e-65	954	embryo NM1E13.5 14.5 Mus musculus cDNA clone 402835.5 similar to gb X57351
OST1165	gb W54649	1.9e-184	974	INTERFERON-INDUCIBLE PROTEIN 1-BD Hattus norvegicus Rat matrix 3 mRNA
OST1179	gb AA008986	8.5e-84	944	p19MP19.5 Mus musculus cDNA clone 313365.5 similar to gb H29H44
OST1186	gb W08940	2.8e-70	964	APOLIPROTEIN C-II PRECURSOR Hattus norvegicus Rat matrix 3 mRNA
OST1192	gb W082490	5.3e-127	964	embryo NM1E13.5 14.5 Mus musculus cDNA clone 441146.5
OST1207	gb AA063763	1.3e-56	864	Mus musculus m17940.1 r1 Soares mouse 404094.5
OST1223	gb AA002931	1.5e-189	994	p19MP19.5 Mus musculus cDNA clone 402323.5
OST1226	gb UJ7353	7.5e-279	954	Mus musculus m17940.1 r1 Soares mouse clone 426279.5
OST1233	gb W98701	6.3e-91	984	Mus musculus m17940.1 r1 Soares mouse clone 423585.5
OST1234	gb W082904	1.1e-180	984	Complete cds Homo sapiens human zinc finger protein (ZNF143) mRNA, complete cds
OST1241	gb W09850	4.8e-184	924	Mus musculus m17940.1 r1 Soares mouse clone 478899.5 similar to gb L10K.1AT
OST1247	gb AA051266	4.7e-126	974	Q05310 LEYDIG CELL TUMOR 10 KD PROTEIN Mus musculus m17940.1 r1 Soares mouse clone 423585.5
OST1265	gb X96973	6.8e-183	964	Lap-1 protein Homo sapiens Y02940.2 r1 Soares mouse N2B48R Homo sapiens cDNA clone 274730
OST1267	gb W04271	1.6e-32	864	5' similar to SP-YPK1-YEAST P12688 SERINE/THREONINE-PROTEIN KINASE YPK1 Homo sapiens human
OST1269	gb U19977	4.0e-130	844	preprocarboxypeptidase A2 (prCPA2) mRNA, complete cds
OST1274	gb W14634	2.1e-139	854	Hattus norvegicus Rat mitochondrial propionyl-CoA carboxylase (PCCase)
OST1294	gb J03503	6.8e-69	954	Hattus norvegicus Rat clathrin heavy chain mRNA, complete cds
OST1339	gb W97190	3.1e-118	834	Homo sapiens human Sp2 protein mRNA, complete cds
OST1341	gb W96611	7.8e-142	934	Mus musculus m17940.1 r1 Soares mouse clone 419859.5
OST1354	gb W74401	2.2e-64	854	Homo sapiens m17940.1 r1 Soares fetal heart m17940.1 r1 Soares cDNA clone 346463.3
OST1359	gb W65672	5.1e-35	954	Mus musculus m17940.1 r1 Soares mouse clone 387377.5 similar to SV:UIC52_UBONE_P35128
OST1369	gb W62550	1.1e-109	974	UNIQUEITIN-CONJUGATING ENZYME E2-17 KD Hattus norvegicus Rat matrix 3 mRNA clone 374060.5 similar to gb U06019
OST1376	gb X63615	1.1e-33	924	adhesion molecule 1 Mus musculus M. musculus Cank-2 mRNA for Ca2+/calmodulin dependent protein kinase II beta subunit
OST1387	gb X15521	6.5e-57	934	Homo sapiens human fetal brain cDNA 5'-end GGN-149C01
OST1410	gb W59607	4.8e-77	894	Mus musculus m17940.1 r1 Soares mouse clone 374002.5
OST1419	gb W10923	1.2e-122	974	Mus musculus m17940.1 r1 Soares mouse p19MP19.5 Mus musculus cDNA clone 313148.5
OST1432	gb W08989	1.7e-145	944	Mus musculus m17940.1 r1 Soares mouse clone 420325.5
OST1453	gb C18312	5.6e-92	864	Homo sapiens human placenta cDNA 5'-end GGN-56009
OST1457	gb W78051	5.9e-45	804	Homo sapiens Y190F03.1 r1 Homo sapiens cDNA clone 146525.5
OST1470	gb J05504	1.5e-136	954	Mus musculus Mus guanylate cyclase/atrial natriuretic factor receptor mRNA, complete cds
OST1478	gb U57821	8.4e-55	804	Mus musculus Mus musculus inhibitor of MyoD family-b (I-mf) mRNA, complete cds
OST1488	gb U24681	4.3e-235	944	Synthetic construct Synthetic NADH:cytochrome c reductase fusion protein mRNA, complete cds
OST1492	gb W10703	3.6e-109	984	Mus musculus m17940.1 r1 Soares mouse p19MP19.5 Mus musculus cDNA clone 314456.5
OST1493	gb AA097483	3.5e-197	984	Mus musculus m17940.1 r1 Soares mouse p19MP19.5 Mus musculus cDNA clone 493159.5 similar to gb L05093 G05
OST1499	gb W51184	1.3e-60	944	RIBOSOMAL PROTEIN L18A (RPL18A) Homo sapiens Y094H05.1 r1 Homo sapiens cDNA clone 78873.5
OST1504	gb J134260	1.7e-196	914	Mus musculus Mus musculus integrin membrane protein 1 (Itim1) mRNA, complete cds
OST1508	gb U03306	1.0e-164	944	Mus musculus Mus musculus core-binding factor mRNA sequence
OST1520	gb W18420	4.7e-37	884	Mus musculus m17940.1 r1 Soares mouse p19MP19.5 Mus musculus cDNA clone 334596.5 similar to PIR:JH0457 JH0457
OST1523	gb U023769	7.2e-195	924	80K nuclear protein - human Rattus norvegicus Rattus norvegicus CLP36 (clp36) mRNA, complete cds
OST1554	gb W05270	2.3e-168	964	embryo NM1E13.5 14.5 Mus musculus cDNA clone 407721.5 similar to SW:IPYR140VFN P37980 INORGANIC PYROPHOSPHATASE
OST1556	gb AA117514	9.7e-150	894	Mus musculus m17940.1 r1 Heddington mouse embryonic region Mus musculus cDNA clone 539344.5
OST1558	gb H03765	2.2e-67	864	Rattus sp. EST110085 Rattus sp. cDNA 5' end
OST1567	gb U14636	1.7e-39	944	Mus musculus Mus musculus serine/threonine protein kinase BIK mRNA, complete cds
OST1601	gb W19611	1.3e-89	854	Homo sapiens Y094H05.1 r1 Soares parathyroid tumor HMB19 Homo sapiens cDNA clone 322790.5
OST1603	gb W09922	4.0e-109	864	Mus musculus m17940.1 r1 Soares mouse p19MP19.5 Mus musculus cDNA clone 315782.5 similar to PIR:S48566 S48566
OST1628	gb U01239	7.9e-78	934	hypothetical protein IBI67.23 - yeast Mus musculus Mus musculus lysosomal-associated multitransmembrane protein (LAPTM5) mRNA, complete cds
OST1649	gb AA049090	7.9e-158	964	Mus musculus m17940.1 r1 Soares mouse clone 479172.5
OST1653	gb AA010795	5.1e-143	974	embryo NM1E13.5 14.5 Mus musculus cDNA clone 464783.5
OST1658	gb W12941	5.2e-95	974	Mus musculus m17940.1 r1 Soares mouse p19MP19.5 Mus musculus cDNA clone

Figure 8 cont'd.

OST2110	gb AA051277	6.5e-130	971	Mus musculus m313108.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 478911.5, similar to gb:Y00764 UBIQUITIN-CYTOCHROME C REDUCTASE 11 KD PROTEIN (HUMAN)
OST2112	gb W05170	4.7e-118	961	Mus musculus m413103.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 407837.5, similar to gb:K00550 TUBULIN ALPHA-1 CHAIN (HUMAN); gb:M13441 Mouse alpha-tubulin isoform M-alpha-6 mRNA, complete cds
OST2116	gb X76453	2.4e-66	861	Rattus norvegicus R. norvegicus (Sprague Dawley) H-rev107 mRNA
OST2126	gb W99867	1.8e-35	851	Mus musculus m310102.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 425259.5
OST2134	gb W14001	5.2e-109	981	Mus musculus m46401.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 315504.5, similar to PIR:550866 550866 48-DPI protein - human
OST2141	gb W01351	3.8e-40	791	Homo sapiens yu87e07.r1 Homo sapiens cDNA clone 240780.5
OST2165	gb W64236	1.7e-144	931	Mus musculus m495a11.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 385724.5
OST2174	gb W05055	1.1e-67	931	Interacting protein mRNA, complete cds
OST2177	gb W99250	1.9e-122	861	Mus musculus m46004.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 418711.5
OST2182	gb S79780	1.4e-55	931	Mus sp. D3-protein regulating cell cycle transcription factor D3P1/22F [Mice, pl-2, 59 EC, embry, 1300 nt]
OST2188	gb W10048	2.3e-86	971	Mus musculus m467607.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 315733.5, similar to gb:U05547 CLEAVAGE STIMULATION FACTOR, 50 KD SUBUNIT (HUMAN)
OST2191	gb U04054	5.4e-61	951	Mus musculus Mus musculus S18C mRNA, complete cds
OST2198	gb T25302	3.1e-33	691	Homo sapiens EST039K Homo sapiens cDNA clone 4629-19K
OST2218	gb W38136	4.1e-112	971	Homo sapiens zell411.s1 Soares parathyroid tumor hBPA Homo sapiens cDNA clone 322268.3
OST2220	gb AA049140	6.0e-153	911	Mus musculus m49404.r1 Soares mouse clone 479430.5, similar to gb:U05547 SW:YB-TORCA P13701 SYTHPTORCA111
OST2229	gb AA014563	2.8e-109	911	Mus musculus m467605.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 460584.5
OST2236	gb S03750	2.4e-98	961	Mus sp. metallothionein-1 gene transcription activator [Mice, L cells; mRNA, 509 nt]
OST2237	gb AA002285	1.7e-33	101	Mus musculus m464206.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 426442.5, similar to gb:U05547 SW:YB1 YEAST P30326 HYPOXANTHINE PHOSPHORIBOSYLTRANSFERASE (HUMAN); KD PROTEIN IN P30326 HYPOXANTHINE PHOSPHORIBOSYLTRANSFERASE (HUMAN)
OST2250	gb W71063	2.0e-137	961	Mus musculus m41102.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 309114.5
OST2269	gb U03027	3.1e-119	911	Mus musculus Mus musculus CREB transcription factor, novel applied form mRNA, partial cds
OST2271	gb U03005	9.9e-111	911	Mus musculus Mus musculus thcl mRNA, complete cds
OST2275	gb W02226	1.7e-114	951	Mus musculus m425104.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 349591.5, similar to SW:CLC1200V11 P35526 CHILDRENS GUANINE NUCLEOTIDE P4A
OST2285	gb W033930	1.2e-43	921	Mus musculus m45400.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 331230.5, similar to gb:U03115 LACTOYLGLUTATHIONE LYASE (HUMAN)
OST2286	gb W087077	8.3e-85	961	Mus musculus m49411.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 401221.5, similar to
OST2297	gb P07734	7.0e-34	861	SW:YAGC-SCHEP 009790 HYPOXANTHINE 23.7 KD PROTEIN C1306.14 IN CHROMOSOME 1. Homo sapiens H. sapiens partial cDNA sequence; clone c-26h07
OST2307	gb X61399	7.0e-66	921	Mus musculus Mouse P52 mRNA for a novel protein
OST2321	gb AA100747	5.1e-85	781	Homo sapiens z191104.r1 Scratogene colon 18937204) Homo sapiens cDNA clone 512023.5
OST2332	gb J02811	1.2e-81	921	Rattus sp. Rat myoadenylate deaminase (AMP deaminase) mRNA, complete cds
OST2346	gb AU000893	1.5e-95	941	Mus musculus Mouse mRNA for synaptotagmin 3, complete cds
OST2347	gb J017653	2.5e-101	851	Mus musculus Mouse mRNA for Hb15/L22, complete cds
OST2353	gb W00097	7.4e-73	851	Homo sapiens yu04g12.r1 Homo sapiens cDNA clone 24692.5
OST2357	gb W30066	4.1e-133	991	Mus musculus m423a09.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 349336.5
OST2361	gb W18873	7.5e-58	951	Mus musculus m404d04.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 337927.5
OST2367	gb X97831	1.9e-104	851	Rattus norvegicus R. norvegicus mRNA for carnitine/acylcarnitine carrier protein
OST2368	gb AA013837	6.1e-32	771	Mus musculus m424c06.r1 Soares mouse placenta 4HMP13.5 14.5 Mus musculus cDNA clone 443434.5
OST2379	gb L10911	1.2e-105	911	Homo sapiens Homo sapiens splicing factor (CCL-4) mRNA, complete cds
OST2380	gb W07091	9.5e-88	901	Mus musculus m458d10.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 418483.5
OST2381	gb AA000090	8.3e-126	961	Mus musculus m491h06.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 484187.5
OST2382	gb AA015380	5.1e-126	921	Mus musculus m494g12.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 440710.5, similar to gb:M13690 Mouse argininosuccinate synthetase
OST2389	gb U05614	2.0e-59	911	Mus musculus Mus musculus SRG3 mRNA, complete cds
OST2395	gb AA122609	5.0e-138	101	Mus musculus m425h06.r1 Bedlington mouse embryonic region Mus musculus cDNA clone 53003.5
OST2400	gb W34469	4.2e-122	861	Mus musculus m498e09.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 318760.5
OST2401	gb AA049059	3.7e-83	911	Mus musculus m413101.r1 Soares mouse embryo NMRIJ.5 14.5 Mus musculus cDNA clone 475969.5, similar to
OST2416	gb W14179	3.1e-54	941	SW:YAGC-SCHEP 010106 HYPOXANTHINE 29.7 KD PROTEIN C1806.06 IN CHROMOSOME 1. Mus musculus m438508.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 331671.5
OST2418	gb J25044	1.3e-47	811	Homo sapiens yx22f02.r1 Homo sapiens cDNA clone 262491.5
OST2433	gb AA104747	2.4e-164	971	Mus musculus m456401.r1 Life Tech mouse embryo H. Sdp4 10664019 Mus musculus cDNA clone 557592.5, similar to gb:M13642 HYPOXANTHINE-GUANINE PHOSPHORIBOSYLTRANSFERASE (HUMAN); gb:J00423 mouse hypoxanthine phosphoribosyltransferase (HUMAN)
OST2442	gb W35019	1.7e-55	911	Mus musculus m416904.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 348534.5
OST2447	gb AA061741	1.0e-58	941	Mus musculus m490b07.r1 Soares mouse p1NM19.5 Mus musculus cDNA clone 483349.5, similar to WP:C32A3.3 C05341 COILED COIL DOMAINS
OST2455	gb AA167801	4.2e-62	901	Homo sapiens z438c06.r1 Scratogene hnt neuron (8937233) Homo sapiens cDNA clone 631978.5
OST2459	gb U05333	3.4e-119	961	Mus musculus Mus musculus co-chaperonin "colfactor A" mRNA, complete cds

Figure 8

OST2829	gb AA002649	7.7e-90	94%	mus musculus myh10c.r1 Soares mouse embryo NMHE13.5 14.5 Mus musculus cDNA clone 426106 5'. similar to SR:RSES_HUMAN Q00587 SENUH PROTEIN M3535. [1]
OST2834	gb U57692	1.4e-222	97%	Mus musculus Mus musculus H-terminal asparagine amidohydrolase (Ntan1) mRNA, complete cds
OST2835	gb AA060795	2.1e-89	97%	p3HMF19.5 Mus musculus cDNA clone 482313 5'. similar to WP:F42H10.4 CE00166 CNIP
OST2839	gb AA163971	6.0e-61	70%	Mus musculus ms40a01.r1 Life Tech mouse embryo 13 5dpc 10666014 Mus musculus cDNA clone G1392 5'.
OST2842	gb W54515	6.1e-64	91%	Mus musculus mc09a10.r1 Soares mouse embryo NMHE13.5 14.5 Mus musculus cDNA clone 367866 5'. similar to gb:U07151
OST2877	gb J03583	1.3e-66	93%	ADP-RIBOSYLATION FACTOR-LIKE PROTEIN 3 Rattus norvegicus Rat calthrin heavy chain mRNA, complete cds
OST2883	gb W34850	4.8e-75	93%	Mus musculus mc62b02.r1 Soares mouse embryo NMHE13.5 14.5 Mus musculus cDNA clone 353067 5'. similar to gb:U11248
OST2892	gb W57758	1.4e-125	90%	Mus musculus C57BL/6J ribosomal protein 528 mRNA, complete (M0U3E) Mus musculus mg01e10.r1 Soares mouse embryo NMHE13.5 14.5 Mus musculus cDNA clone 422538 5'. similar to
OST2897	gb W11087	7.9e-132	97%	gb:J048222_rnal CYTOCHROME C OXIDASE POLYPEPTIDE VII1-LIVEN/HEAHT Mus musculus m47b010.r1 Soares mouse p3HMF19.5 Mus musculus cDNA clone 316819 5'.
OST2909	gb AA166258	8.9e-120	96%	Mus musculus ms49c09.r1 Life Tech mouse embryo 13 5dpc 10666014 Mus musculus cDNA clone G14896 5'.
OST2911	gb U73478	1.4e-117	80%	Mus musculus Mus musculus acidic nuclear phosphoprotein pp32 mRNA, complete cds
OST2914	gb U12236	4.0e-136	95%	Mus musculus Mus musculus AKR alpha M290 integrin mRNA, complete cds
OST2916	gb U77002	1.4e-67	92%	Mus musculus House embryonal carcinoma F9 cell cDNA, 93E10
OST2921	gb W57540	8.4e-106	98%	Mus musculus mc55b06.r1 Soares mouse embryo NMHE13.5 14.5 Mus musculus cDNA clone 391379 5'.
OST2922	gb U50544	8.4e-135	88%	homo sapiens human lymphocyte mRNA for TFIID subunit p22, complete cds
OST2923	gb W85631	3.2e-108	97%	Mus musculus m337b01.r1 Soares mouse embryo NMHE13.5 14.5 Mus musculus cDNA clone 407209 5'.
OST2926	gb W59561	6.3e-164	94%	Mus musculus md72g01.r1 Soares mouse embryo NMHE13.5 14.5 Mus musculus cDNA clone 373968 5'.
OST2929	gb W75735	3.0e-92	92%	Mus musculus mc50h12.r1 Soares mouse embryo NMHE13.5 14.5 Mus musculus cDNA clone 390983 5'.
OST2934	gb W82904	1.8e-75	93%	Mus musculus Mus myotonic dystrophy region mRNA
OST2940	gb AA154635	1.4e-114	97%	Mus musculus m44c11.r1 Beldingdon mouse embryonic region Mus musculus cDNA clone 540788 5'. similar to gb:X83590 M.musculus mRNA for ribosomal protein L5, 3'-end
OST2942	gb W34882	1.4e-91	96%	Mus musculus mc40a05.r1 Soares mouse p3HMF19.5 Mus musculus cDNA clone 350960 5'.
OST2948	gb AA108292	5.1e-32	81%	Rattus norvegicus EST0035 rat lambda ZAP11 library (C.P.Hamel) Rattus norvegicus cDNA clone pC093 5'. similar to ADP-ribosylation factor (ARF)-like protein
OST2953	gb W10606	1.8e-97	98%	Mus musculus m44d11.r1 Soares mouse p3HMF19.5 Mus musculus cDNA clone 313557 5'. similar to PIR:J30718 J30718 Atpase inhibitor protein precursor, mitochondrial - rat [1]
OST2956	gb AA049172	1.1e-137	97%	Mus musculus m46d07.r1 Soares mouse

Figure 8 cont'd.

OSTJ3305	gb D88453	Mus musculus House mRNAs	1.0e-106	871
OSTJ3312	gb U78109	prepro-neurotrophin mRNA, complete cds	9.7e-59	661
OSTJ3320	gb D41603	Mus musculus House Y1-1 mRNA for Y1-1 protein (nuclear protein with DNA-binding ability), complete cds	1.2e-112	911
OSTJ3324	gb X61399	Mus musculus House P52 mRNA for a novel protein	2.2e-51	871
OSTJ3325	gb D28476	homo sapiens human mRNA for KIAA0045 gene, complete cds	6.5e-103	941
OSTJ3349	gb J18210	Mus musculus House transcription factor S-11, clone P511-3	2.2e-52	941
OSTJ3352	gb AA09569	homo sapiens NM190 Homo sapiens pregnant uterus NM190 Homo sapiens cDNA clone 48969/3	4.9e-63	771
OSTJ3354	gb W53638	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 36871.5, similar to	9.1e-69	921
OSTJ3355	gb U49185	SW:RNGJ_HUMAN P25440 RING3 PROTEIN, (1)	4.1e-40	821
OSTJ3366	gb AA122835	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 36871.5, similar to	2.1e-85	691
OSTJ3370	gb S67058	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 36871.5, similar to	4.6e-106	941
OSTJ3371	gb W31107	gb:D00602 COPILIN (HUMAN); gb:D00472 House mRNAs for copilin, complete cds and flanks (HOUSE)	1.5e-50	711
OSTJ3372	gb W64059	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 36871.5, similar to	2.2e-134	991
OSTJ3375	gb AA015237	dog	4.0e-44	101
OSTJ3376	gb W27347	placenta 4NMPI3.5 14.5 Mus musculus cDNA clone 443994.5	4.2e-103	991
OSTJ3388	gb U50264	Mus musculus Mus musculus p6-5 gene, 3' end	1.9e-117	981
OSTJ3390	gb W34022	Mus musculus House mRNAs for phosphatidylinositol glycan class F, complete cds	3.6e-46	781
OSTJ3393	gb U60310	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	1.7e-208	931
OSTJ3404	gb AA168895	Mus musculus Mus musculus p6-5 gene, 3' end	6.3e-109	981
OSTJ3413	gb W91837	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	3.3e-39	911
OSTJ3425	gb W71116	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	1.3e-105	881
OSTJ3428	gb AA189339	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	3.4e-37	881
OSTJ3441	gb S51858	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	7.9e-66	771
OSTJ3450	gb X50426	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	7.1e-53	961
OSTJ3457	gb W87064	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	9.0e-166	971
OSTJ3460	gb AA185213	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	4.2e-134	991
OSTJ3480	gb AA110567	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	9.4e-100	891
OSTJ3481	gb X50906	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	1.0e-121	951

OSTJ3483	gb X79446	Mus musculus H. musculus Qif1 mRNA for outer dense fiber protein of sperm tails	1.4e-114	921
OSTJ3485	gb U83824	homo sapiens similar to T cell-specific MAL	1.4e-75	861
OSTJ3492	gb W09518	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	4.7e-139	921
OSTJ3494	gb W61666	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	1.1e-138	991
OSTJ3500	gb U62483	NUCLEOTIDE-BINDING PROTEIN G117G(S)/G10 GAMMA-5 SUBUNIT, (1)	2.1e-180	981
OSTJ3501	gb D59851	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	6.8e-54	901
OSTJ3505	gb W40803	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	3.9e-173	991
OSTJ3508	gb W23458	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	2.0e-119	901
OSTJ3516	gb L14441	retroviruslike B-26 (distantly related to MuLV) LTR	5.4e-177	901
OSTJ3517	gb AA015044	N-methyltransferase mRNA, complete cds	5.5e-114	971
OSTJ3518	gb AA061165	placenta 4NMPI3.5 14.5 Mus musculus cDNA clone 443994.5	6.3e-99	911
OSTJ3521	gb U33756	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	3.7e-70	871
OSTJ3531	gb U19893	homo sapiens Hattus norvegicus alpha actinin mRNA, complete cds	6.7e-34	801
OSTJ3534	gb U37150	Bos taurus Bos taurus peptidase methionine sulfoxide reductase (msrA) mRNA, complete cds	5.7e-31	831
OSTJ3545	gb W93148	Mus musculus House homeobox protein (Hox-1.1) gene, complete cds	4.0e-103	841
OSTJ3556	gb W00748	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	1.9e-129	971
OSTJ3558	gb U33306	Hattus norvegicus Hattus norvegicus (clone HAH2-5/8) zinc finger protein mRNA, 3' end cds	7.9e-132	971
OSTJ3561	gb W13785	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	5.1e-64	991
OSTJ3567	gb AA050004	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	2.8e-48	781
OSTJ3571	gb W75236	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	2.4e-113	911
OSTJ3575	gb AA080212	Mus musculus m14d10.r1 Soares mouse embryo NM13.5 14.5 Mus musculus cDNA clone 443994.5	6.0e-90	931
OSTJ3579	gb S74622	PROTEIN, ALPHA CHAIN (HUMAN)	1.1e-39	761
OSTJ3582	gb X74350	Gallus gallus P1M M21 subunit-protein phosphatase 1M 21 kDa regulatory subunit (chickenn, gizzard smooth muscle, mRNA, 1598 nt)	1.5e-74	991
OSTJ3601	gb U50076	Mus musculus H. musculus XPAC Xachma exon 6	4.6e-138	891
OSTJ3602	gb W15062	homo sapiens Human guanine nucleotide exchange factor p532 mRNA, complete cds	2.3e-107	901
OSTJ3604	gb W27356	Hattus norvegicus Rat 21-kDa subunit of mitochondrial NADH dehydrogenase? mRNA, 3' end	4.9e-119	841
OSTJ3608	gb U14294	homo sapiens Human H. sapiens	5.4e-101	851

Figure 8 cont'd.

Accession	Gene	Protein	Length	Score	Notes
U037009	gblAA014326	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 439657 5' similar to SW:NM7M_BOVIN_002167 HADH-UBIQUITINONE OXIDOREDUCTASE D17 SUBUNIT	971	9.7e-55	101
U037009	gblD13544	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	971	9.5e-67	971
U037007	gblW26968	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	801	3.8e-51	801
U037018	gblM28248	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	961	3.8e-48	961
U037019	gblT5632	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	811	3.8e-35	811
U037027	gblAA046830	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	841	1.2e-67	841
U037031	gblW07077	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	991	3.5e-121	991
U037039	gblM86008	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	861	1.4e-103	861
U037041	gblZ02190	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	881	2.8e-51	881
U037049	gblW64906	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	941	1.3e-173	941
U037051	gblU51037	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	841	1.0e-135	841
U037058	gblX56135	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	971	4.7e-237	971
U037064	gblU19493	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	951	9.8e-33	951
U037069	gblW41525	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	851	4.4e-100	851
U037097	gblW10485	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	951	3.8e-97	951
U037103	gblW59308	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	861	1.2e-108	861
U037105	gblU85430	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	921	8.0e-102	921
U037105	gblU20459	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	941	1.2e-80	941
U037117	gblZ44044	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	871	8.7e-01	871
U037124	gblU04699	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	841	3.9e-32	841
U037125	gblW23511	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	761	1.2e-88	761
U037131	gblU14957	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	811	1.6e-36	811
U037135	gblW15004	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	971	1.6e-122	971
U037137	gblAA051293	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	961	2.8e-143	961
U037160	gblU08614	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	821	1.1e-88	821
U037161	gblU67988	mus musculus m44001, r1 Soares mouse embryo NMEL13.5 14.5 Mus musculus cDNA clone 464182 5' similar to WP:R0102.6 CE00805 UBC	771	6.6e-37	771

Figure 8 cont'd.

OST4196	gb w11301	3.1e-19	99%	Mus musculus mc43h06.r1 Soares mouse p3HMP19.5 Mus musculus cDNA clone 351323.5
OST4223	gb AA203787	2.7e-89	90%	Mus musculus mu60f12.r1 Soares mouse lymphocyte NM1A Mus musculus cDNA clone 64383.5
OST4228	gb S51016	9.3e-205	92%	Dos taurus E2125K=multibubiquitinating enzyme [cattle, thymus, mRNA, 825 nt]
OST4229	gb Z31263	4.8e-70	97%	Mus musculus K.musculus expressed sequence tag M8577
OST4235	gb W53187	3.0e-173	97%	Mus musculus md19a07.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 368820.5 similar to MF:C3205.9 CE01849
OST4243	gb AA040921	2.3e-40	86%	Mus musculus mj47ell.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 479276.5 similar to gb U13705
OST4245	gb H10216	9.9e-80	75%	Mus musculus domestica C57BL/6J plasma glutathione (HOUSE)
OST4247	gb AA023146	1.5e-115	96%	Homio sapiens ym02f05.s1 Homio sapiens cDNA clone 46710.3
OST4251	gb AA070774	8.7e-154	98%	Mus musculus mh67b03.r1 Soares mouse placenta 4NBMP13.5 14.5 Mus musculus cDNA clone 455981.5 similar to SW:A4P_HUMAN Q04941 INTESTINAL MEMBRANE A1 PROTEIN. [1]
OST4254	gb W54737	2.4e-82	10%	Homio sapiens zm5jg11.s1 Stratagene fibroblast (H937212) Homio sapiens cDNA clone 529412.3
OST4258	gb AA013789	4.3e-169	90%	Mus musculus md10a04.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 367950.5
OST4281	gb U16175	4.0e-40	63%	Mus musculus mh13d03.r1 Soares mouse placenta 4NBMP13.5 14.5 Mus musculus cDNA clone 442373.5 similar to PIR:JC2472 JC2472 RE protein - human
OST4283	gb AA007519	8.9e-52	81%	Mus musculus Mus musculus Chroamopondin 3 (rthb3) gene, partial cda and mucin 1 (Muc1) gene, complete cds
OST4288	gb AA000024	1.4e-135	96%	Homio sapiens zhp0el2.r1 Soares fetal liver spleen INFL5 S1 Homio sapiens cDNA clone 429358.5
OST4315	gb W10210	6.4e-62	96%	Mus musculus mg3je06.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 425602.5 similar to gb X03920_rna2 M.musculus GSHfx gene (HOUSE)
OST4319	gb J04696	2.0e-127	95%	Mus musculus Mouse transcription factor S-11, clone P511-3
				Mus musculus Mouse glutathione S-transferase class mu (GSTY5-5) mRNA, complete cds

OST4397	gb W45326	9.6e-55	94%	Mus musculus mc79g04.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 354750.5
OST4398	gb W13524	2.6e-111	90%	Mus musculus Mouse serum amyloid A pseudogene (psi-SAA)
OST4399	gb W16778	4.7e-45	82%	Homio sapiens yf33a08.s1 Homio sapiens cDNA clone 128630.3
OST4402	gb AA000314	1.9e-112	96%	Mus musculus mg3je07.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 425700.5
OST4403	gb L37297	2.9e-121	91%	Mus musculus Mus musculus (clone u6) myeloid secondary granule protein mRNA
OST4401	gb L26664	2.0e-155	94%	Mus musculus Mus musculus expressed sequence tag EST F032
OST44028	gb W07470	7.5e-93	92%	Homio sapiens Human mRNA for KIAA0200 gene, partial cda
OST44033	gb AA084704	2.2e-54	88%	Homio sapiens zno5f04.s1 Stratagene hprt neuron (H937233) Homio sapiens cDNA clone 546559.3 similar to TM:G600529 G600529 NADH UBIQUINONE OXIDOREDUCTASE SUBUNIT
OST44051	gb F03500	7.6e-63	86%	Homio sapiens H. sapiens partial cDNA sequence; clone C-1208
OST44061	gb W30618	3.1e-118	97%	Mus musculus mc10h12.r1 Soares mouse p3HMP19.5 Mus musculus cDNA clone 348167.5
OST44070	gb W36515	6.0e-135	94%	Mus musculus mb76g12.r1 Soares mouse p3HMP19.5 Mus musculus cDNA clone 335398.5
OST44073	gb X02021	2.0e-105	91%	Rattus norvegicus R.norvegicus mRNA for heat shock related protein
OST44074	gb D63704	3.3e-140	86%	Rattus norvegicus Rat mRNA for dihydropyrimidinase, complete cds
OST44106	gb W75804	1.1e-84	93%	Mus musculus mc67a06.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 400594.5
OST44114	gb W20730	6.5e-90	96%	Mus musculus mb96g01.r1 Soares mouse p3HMP19.5 Mus musculus cDNA clone 337296.5
OST44131	gb AA044274	2.4e-33	69%	Homio sapiens zK54h03.s1 Soares pregnant uterus NM1PU Homio sapiens cDNA clone 486677.3
OST44134	gb H31489	3.0e-84	85%	Rattus sp. EST105564 Rattus sp. cDNA 3'. end
OST44140	gb W1052	3.7e-121	91%	Mus musculus me27f01.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 388729.5 similar to SW:YB18 YEAST P3182 HYPOTHETICAL 13.6 KD PROTEIN IN YET112-1LS1 INTERGENIC REGION. [1]
OST44142	gb C07091	5.7e-74	89%	Rattus norvegicus similar to none
OST44144	gb X56135	4.4e-41	83%	Mus musculus Mouse mRNA for prothymosin alpha
OST44148	gb W54510	1.5e-136	91%	Mus musculus md08h09.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 367841.5 similar to PIR:A56059 A56059 protein-tyrosine-phosphatase
OST44149	gb U36393	2.6e-111	96%	Mus musculus Mus musculus transcription factor TFEB mRNA, partial cda
OST44154	gb X56046	1.3e-161	96%	Mus musculus Mouse mRNA (clone lambda-16) for hypothetical protein A
OST44155	gb X05900	3.5e-58	85%	Rattus norvegicus Rat mRNA for lens betaB1-crystallin (pRLbeta B1-3)
OST44166	gb U33859	8.0e-169	90%	Rattus norvegicus Rattus norvegicus calpain small subunit (csal) mRNA, partial cda
OST44174	gb U41395	1.3e-30	84%	Mus musculus Mus musculus X inactive specific transcript (Xiat) gene, cosmid HB4-14A, fragment 2
OST44191	gb X63507	2.0e-75	81%	Mus musculus M.musculus HOX-3.5 gene
OST44192	gb W53157	2.2e-83	82%	Mus musculus mf49h12.r1 Soares mouse embryo NM1E13.5 14.5 Mus musculus cDNA clone 408455.5 similar to SW:GLYM_HUMAN P34897 SERINE HYDROXYMETHYLTRANSFERASE, H10X10H01A1
OST44194	gb W14635	8.9e-38	87%	Mus musculus mc1le07.r1 Soares mouse p3HMP19.5 Mus musculus cDNA clone 350148.5